

# Energy Consumption and Emissions

From: 2021-01-01 To: 2021-12-31

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# Energy Consumption and Emissions

From: 2021-01-01 To: 2021-12-31

## Natural Gas

Facility type: Office

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (m3)	Cost (\$)	Energy (e KWh/yr)	GHG Emissions (KgCO2e/yr)	GHG Intensity (KgCO2e/m2)	Energy Intensity (e KWh/m2)
<b>Northumberland County Headquarters</b>	555 Courthouse Road	4,042	6.43	2,645.00	1,468.71	28,110.47	5,000.68	1.20	6.95
<b>Courthouse and POA Office</b>	860 William Street	4,370	6.43	55,435.00	22,091.69	589,150.82	104,806.40	23.98	12.68
<b>Cobourg Food4All and EMS Station</b>	600 William Street	1,182	12	25,813.33	10,068.66	274,338.31	48,803.14	41.29	232.10
<b>Material Recovery Facility</b>	280 Edwardson Road	486	6	18,249.68	6,919.35	193,953.59	34,503.18	70.99	399.08
<b>Port Hope EMS Station</b>	423 Croft Street	229	24	3,123.78	1,479.58	33,198.86	5,905.88	25.79	144.97

## Energy Consumption and Emissions

From: 2021-01-01 To: 2021-12-31

Facility Type: Emergency Medical Services

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (m3)	Cost (\$)	Energy (e KWh/yr)	GHG Emissions (KgCO2e/yr)	GHG Intensity (KgCO2e/m2)	Energy Intensity (e KWh/m2)
<b>Cobourg Food4All and EMS Station</b>	600 William Street	1,517	12	33,134.67	12,924.40	352,147.89	62,645.00	41.29	232.13
<b>Port Hope EMS Station</b>	423 Croft Street	253	24	3,451.22	1,634.67	36,678.77	6,524.93	25.79	144.97
<b>Colbourne Fire/Paramedics Dase</b>	232 Purdy Road	1,133	24	20,180.00	8,463.77	214,468.54	38,152.67	33.67	189.29

Facility Type: Long-Term Care

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (m3)	Cost (\$)	Energy (e KWh/yr)	GHG Emissions (KgCO2e/yr)	GHG Intensity (KgCO2e/m2)	Energy Intensity (e KWh/m2)
<b>Golden plough lodge</b>	983 Burnham Street	9,247	24	321,936.00	120,983.59	3,421,464.02	608,567.92	65.82	370.01

# Energy Consumption and Emissions

From: 2021-01-01 To: 2021-12-31

Facility Type: Public Works

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (m3)	Cost (\$)	Energy (e KWh/yr)	GHG Emissions (KgCO2e/yr)	GHG Intensity (KgCO2e/m2)	Energy Intensity (e KWh/m2)
<b>Veronica Roads Yard Quonset Garage</b>	60 Elgin Street	371	5.71	5,408.00	2,636.76	57,475.02	10,224.46	27.56	154.92
<b>Material Recovery Facility</b>	280 Edwardson Road	2,296	6	18,249.69	7,045.86	916,255.87	162,996.42	70.99	4,054.23
<b>Veronica Roads Yard Waste Garage</b>	60 Elgin Street	298	4.57	2,978.00	1,498.30	31,649.52	5,630.26	18.89	106.21

# Energy Consumption and Emissions

From: 2021-01-01 To: 2021-12-31

Facility Type: Storage Facility

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (m3)	Cost (\$)	Energy (e KWh/yr)	GHG Emissions (KgCO2e/yr)	GHG Intensity (KgCO2e/m2)	Energy Intensity (eKWh/m2)
<b>OAFVC</b>	216 Purdy Road	6400	6.43	31,614.00	13,519.39	335,986.54	113,195.43	17.69	52.50

Facility Type: Depot

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (m3)	Cost (\$)	Energy (e KWh/yr)	GHG Emissions (KgCO2e/yr)	GHG Intensity (KgCO2e/m2)	Energy Intensity (e KWh/m2)
<b>Veronica Roads Yard Depot</b>	60 Elgin Street	1121	6.43	12,134.00	5,223.97	128,957.45	22,940.76	20.46	115.04

# Energy Consumption and Emissions

From: 2021-01-01 To: 2021-12-31

## Electricity

Facility Type: Office

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (KWh)	Cost (\$)	Energy (e KWh/yr)	GHG Emissions (KgCO2e/yr)	GHG Intensity (KgCO2e/m2)	Energy Intensity (e KWh/m2)
<b>Northumberland County Headquarters</b>	555 Courthouse Road	4,042	6.43	668,558.00	106,667.29	668,558.00	118,932.46	29.42	165.40
<b>Courthouse and POA Office</b>	860 William Street	4,370	6.43	511,522.00	78,721.24	511,522.00	90,996.69	20.82	117.05
<b>Cobourg Food4All and EMS Station</b>	600 William Street	1182	12	133,487.25	21,492.65	133,487.25	23,746.58	20.09	112.93
<b>Material Recovery Facility</b>	280 Edwardson Road	486	6	96,267.91	25,434.12	96,267.91	17,125.48	35.24	198.08
<b>Morganston Roads Depot</b>	4218 County Road 25	140	8	17,368.91	3,033.12	17,368.91	3,089.82	22.07	124.06
<b>Bewdley Transfer Station</b>	7650 Oak Ridges Drive	24	6.57	26,240.00	4,719.99	26,240.00	4,667.94	194.50	1,093.33
<b>Brighton Landfill</b>	1112 County Road 26	34	6.57	35,556.00	6,278.94	35,556.00	6,325.20	186.03	1,045.76

## Energy Consumption and Emissions

From: 2021-01-01 To: 2021-12-31

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (KWh)	Cost (\$)	Energy (e KWh/yr)	GHG Emissions (KgCO2e/yr)	GHG Intensity (KgCO2e/m2)	Energy Intensity (e KWh/m2)
<b>Seymour Transfer Station</b>	344 5 <sup>th</sup> line west	35	6.57	16,790.00	2,731.34	16,790.00	13,078.40	373.67	479.71
<b>Port Hope EMS Station</b>	423 croft street	229	24	22,880.82	3,591.91	22,880.82	4,070.36	17.77	99.92

### Facility Type: Emergency Medical Services

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (KWh)	Cost (\$)	Energy (e KWh/yr)	GHG Emissions (Kg CO2e/yr)	GHG Intensity (KgCO2e/m2)	Energy Intensity (e KWh/m2)
<b>Cobourg Food4All and EMS Station</b>	600 William Street	1,517	12	171,347.75	27,588.54	171,347.75	30,481.74	20.09	112.95
<b>Roseneath Roads Yard and EMS Station</b>	10127 Highway 45	57	24	2,279.25	418.53	2,279.25	405.46	7.11	39.99
<b>Port Hope EMS Station</b>	423 Croft Street	253	24	25,279.18	3,968.41	25,279.18	4,497.01	17.77	99.92
<b>Colbourne Fire/Paramedics Base</b>	232 Purdy Road	1133	24	85,680.00	16,380.01	85,680.00	15,241.96	13.45	75.62

## Energy Consumption and Emissions

From: 2021-01-01 To: 2021-12-31

Facility Type: Long-Term Care

<b>Facility Name</b>	<b>Address</b>	<b>Total Area (m2)</b>	<b>Average Hours/Day</b>	<b>Consumption (KWh)</b>	<b>Cost (\$)</b>	<b>Energy (e KWh/yr)</b>	<b>GHG Emissions (KgCO2e/yr)</b>	<b>GHG Intensity (KgCO2e/m2)</b>	<b>Energy Intensity (e KWh/m2)</b>
<b>Golden Plough Lodge</b>	983 Burnham Street	9247	24	972,400.00	156,898.46	972,400.00	172,984.12	18.71	105.16



## Energy Consumption and Emissions

From: 2021-01-01 To: 2021-12-31

Facility Type: Public Works

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (KWh)	Cost (\$)	Energy (e KWh/yr)	GHG Emissions (KgCO2e/yr)	GHG Intensity (KgCO2e/m2)	Energy Intensity (e KWh/m2)
<b>Veronica Roads Yard Quonset Garage</b>	60 Elgin Street	371	5.71	32,250.00	4,144.55	32,250.00	5,737.08	15.46	86.93
<b>Material Recovery Facility</b>	280 Edwardson Road	2296	6	454,779.09	120,153.30	454,779.09	80,902.47	35.24	198.07
<b>Morganston Roads Yard Depot</b>	4218 County Road 25	501	8	62,159.08	10,854.79	62,159.08	11,057.73	22.07	124.07
<b>Roseneath Roads Yard and EMS Station</b>	10127 Highway 45	247	24	9,876.75	1,813.65	9,876.75	1,757.01	7.11	39.99
<b>Plainville Sand Dome</b>	8636 Donaldson Road	729	24	5,506.00	1,211.72	5,506.00	979.48	1.34	7.55
<b>Veronica Roads Yard Waste Garage</b>	60 Elgin Street	298	4.57	11,128.00	1,886.05	11,128.00	1,979.60	6.64	37.34

## Energy Consumption and Emissions

From: 2021-01-01 To: 2021-12-31

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (KWh)	Cost (\$)	Energy (e KWh/yr)	GHG Emissions (KgCO2e/yr)	GHG Intensity (KgCO2e/m2)	Energy Intensity (e KWh/m2)
<b>Veronica Roads Yard New Depot</b>	60 Elgin Street	557	6.43	672.00	387.70	672.00	119.54	0.21	1.20

### Facility Type: Storage Facility

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (KWh)	Cost (\$)	Energy (e KWh/yr)	GHG Emissions (KgCO2e/yr)	GHG Intensity (KgCO2e/m2)	Energy Intensity (e KWh/m2)
<b>OAFVC</b>	216 Purdy Road	6400	6.43	294,294.00	57,875.59	294,294.00	52,353.14	8.18	45.98

### Facility Type: Depot

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (KWh)	Cost (\$)	Energy (e KWh/yr)	GHG Emissions (KgCO2e/yr)	GHG Intensity (KgCO2e/m2)	Energy Intensity (e KWh/m2)
<b>Veronica Roads Yard Depot</b>	60 Elgin Street	1121	6.43	45,784.00	7,765.46	45,784.00	8,114.70	7.26	40.84

## Energy Consumption and Emissions

From: 2021-01-01 To: 2021-12-31

### Propane

Facility Type: Depot

Facility Name	Address	Total Area (m2)	Average Hours/Day	Consumption (L)	Cost (\$)	Energy (e KWh/yr)	GHG Emissions (KgCO2e/yr)	GHG Intensity (KgCO2e/m2)	Energy Intensity (e KWh/m2)
<b>Roseneath Depot &amp; Morganston Depot</b>	10127 Highway 45 & 4218 County Road 25	805	24	41,373.00	34,220.91	290,875.15	51,744.94	64.28	361.35

## Energy Consumption and Emissions

From: 2021-01-01 To: 2021-12-31

### Totals

#### Totals by Energy Type

Energy Type	Cost (\$)	Energy (eKWh/yr)	GHG Emissions (CO2e/yr)
Natural Gas	284,665	7,066,012	1,617,785
Electricity	664,017	3,702,106	668,664
Propane	34,221	290,875	51,745

#### Grand Totals by Facility Type (Natural Gas & Electricity Combined)

Facility Type	Total Cost (\$)	Total Energy (eKWh/yr)	Total GHG emissions (KgCO2/yr)
Office	317,721	3,250,418	615,667
Emergency Medical Services	71,378	887,882	157,949
Long-Term Care	277,882	4,393,864	781,552
Public Works	151,633	1,581,851	281,404
Storage Facility	89,490	307,813	388,340
Depot	47,210	465,617	82,800

#### Grand Totals all Facilities (Natural Gas, Electricity and Propane Combined)

Total Cost (\$)	Total Energy (eKWh/yr)	Total GHG Emissions (KgCO2e/yr)
872,903	11,058,993	2,338,194

\*Could not find bills or records